

**CORRECTED VERSION**

**(19) World Intellectual Property Organization International Bureau**



**(43) International Publication Date**  
30 June 2005 (30.06.2005)

**PCT**

**(10) International Publication Number**  
**WO 2005/059162 A3**

**(51) International Patent Classification<sup>7</sup>:** C12Q 1/04

AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

**(21) International Application Number:** PCT/US2004/042461

**(22) International Filing Date:**  
16 December 2004 (16.12.2004)

**(25) Filing Language:** English

**(84) Designated States (unless otherwise indicated, for every kind of regional protection available):** ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

**(26) Publication Language:** English

**(30) Priority Data:**  
10/737,574 16 December 2003 (16.12.2003) US

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**Published:**

— with international search report

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**(88) Date of publication of the international search report:**  
15 September 2005

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**(48) Date of publication of this corrected version:**

20 October 2005

**(81) Designated States (unless otherwise indicated, for every kind of national protection available):** AE, AG, AL, AM,

**(15) Information about Correction:**

see PCT Gazette No. 42/2005 of 20 October 2005, Section II

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

**(54) Title:** MICROBIAL DETECTION AND QUANTIFICATION

**(57) Abstract:** Suitable dyes are used herein to indicate the presence of microbial contamination by spraying them onto surfaces in the form of an aqueous solution. The dye solution may also be allowed to dry, thus producing the dried residue of an aqueous solution. It's believed that these dyes change color in response to a change in polarity of the environment. Since water is a polar solvent and most bacteria are made from non-polar substances, the presence of bacteria changes the polarity of the environment, triggering a change visible by the unaided eye.

**WO 2005/059162 A3**